## SEQUENCE LISTING

<110>	Szalay, Aladar A.											
	Wang, Yubao											
	Wang-Pruski, Gefu											
	Loma Linda University											
<120>	Method for Studying Protein Interactions in Vivo											
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	1999-05-24											
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	1998-09-03											
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50 55 60

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gga	ctg	cag	tgc	cat	ccg	ccc	aag	gac	gac	gag	gcg	cct	ttg	cgg	gcg	287
Gly	Leu	Gln	Cys	His	Pro	Pro	Lys	Asp	Asp	Glu	Ala	Pro	Leu	Arg	Ala	
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ctg	ctg	ctc	ggc	cga	ggc	cgc	tgc	ctt	ccg	gcc	cgc	gcg	cct	gct	gtt	335
Leu	Leu	Leu	Gly	Arg	Gly	Arg	Сув	Leu	Pro	Ala	Arg	Ala	Pro	Ala	Val	
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															•	
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Ala	Glu	Glu	Asn	Pro	Lys	Glu	Ser	Lys	Pro	Gln	Ala	Gly	Thr	Ala	Arg	
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Pro	Gln	Asp	Val	Asn	Arg	Arg	Авр	Gln	Gln	Arg	Asn	Pro	Gly	Thr	Ser	
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Arg	Gly		Сув	Trp	Сув	Val	_	Arg	Met	Gly	Lys	Ser	Leu	Pro	Gly	
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ser		Asp	GTÅ	ASD	GIŸ		Ser	ser	cys	Pro		Gly	ser	ser	GIY	
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taaagctggg ggatagaggg gctgcagggc cactggaagg aacatggagc tgtcatcact 779

caacaaaaa ccgaggccct caatccacct tcaggccccg ccccatgggc ccctcaccgc 839

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<213> Homo sapiens

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Gly Gly Ser Pro Ala Glu Gly Cys Ala Glu Ala Glu Gly Cys Leu Arg
50 55 60

Arg Glu Gly Gln Glu Cys Gly Val Tyr Thr Pro Asn Cys Ala Pro Gly 65 70 75 80

Leu Gln Cys His Pro Pro Lys Asp Asp Glu Ala Pro Leu Arg Ala Leu 85 90 95

Leu Leu Gly Arg Gly Arg Cys Leu Pro Ala Arg Ala Pro Ala Val Ala 100 105 110

Glu Glu Asn Pro Lys Glu Ser Lys Pro Gln Ala Gly Thr Ala Arg Pro 115 120 125

Gln Asp Val Asn Arg Arg Asp Gln Gln Arg Asn Pro Gly Thr Ser Thr 130 135 140

Thr Pro Ser Gln Pro Asn Ser Ala Gly Val Gln Asp Thr Glu Met Gly
145 150 155 160

Pro Cys Arg Arg His Leu Asp Ser Val Leu Gln Gln Leu Gln Thr Glu 165 170 175

Val Tyr Arg Gly Ala Gln Thr Leu Tyr Val Pro Asn Cys Asp His Arg 180 185 190

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_	_												tgg Trp			483
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_	_	•						_		_	_		tca Ser		_	579
	_	_		_		-	-		_	-			gaa Glu			627
				_	_								cct Pro 220			675
	_												att Ile			723
			_			_	-	_	_	_			aaa Lys		ttt Phe	771
	_	_	-							-		-	gaa Glu		_	819
_	_					-							ctt Leu			867
_		_	_	_		_	_	_					aaa Lys 300	_		915

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Val Glu Arg Val Leu Lys Asn Glu Gln
305 310

catttttccc gggtttaata atataaatgt cattttcaac aattttatt taactgaata 1025
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Phe Ile Asn Tyr Tyr Asp Ser Glu Lys His Ala Glu Asn Ala Val Ile
35 40 45

Phe Leu His Gly Asn Ala Ala Ser Ser Tyr Leu Trp Arg His Val Val 50 55 60

Pro His Ile Glu Pro Val Ala Arg Cys Ile Ile Pro Asp Leu Ile Gly 65 70 75 80

Met Gly Lys Ser Gly Lys Ser Gly Asn Gly Ser Tyr Arg Leu Leu Asp 85 90 95

His Tyr Lys Tyr Leu Thr Ala Trp Phe Glu Leu Leu Asn Leu Pro Lys 100 105 110

Lys Ile Ile Phe Val Gly His Asp Trp Gly Ala Cys Leu Ala Phe His 115 120 125

Tyr Ser Tyr Glu His Gln Asp Lys Ile Lys Ala Ile Val His Ala Glu 130 135 140

Ser Val Val Asp Val Ile Glu Ser Trp Asp Glu Trp Pro Asp Ile Glu

6

145 150 155 160

Glu Asp Ile Ala Leu Ile Lys Ser Glu Glu Gly Glu Lys Met Val Leu 165 170 175

Glu Asn Asn Phe Phe Val Glu Thr Met Leu Pro Ser Lys Ile Met Arg 180 185 190

Lys Leu Glu Pro Glu Glu Phe Ala Ala Tyr Leu Glu Pro Phe Lys Glu 195 200 205

Lys Gly Glu Val Arg Arg Pro Thr Leu Ser Trp Pro Arg Glu Ile Pro 210 215 220

Leu Val Lys Gly Gly Lys Pro Asp Val Val Gln Ile Val Arg Asn Tyr
225 230 235 240

Asn Ala Tyr Leu Arg Ala Ser Asp Asp Leu Pro Lys Met Phe Ile Glu 245 250 255

Ser Asp Pro Gly Phe Phe Ser Asn Ala Ile Val Glu Gly Ala Lys Lys 260 265 270

Phe Pro Asn Thr Glu Phe Val Lys Val Lys Gly Leu His Phe Ser Gln 275 280 285

Glu Asp Ala Pro Asp Glu Met Gly Lys Tyr Ile Lys Ser Phe Val Glu 290 295 300

Arg Val Leu Lys Asn Glu Gln 305 310

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gcc ttc gcc tcg tgc ttc gct tac cgc ccc agt gag acc ctg 96

Ala Phe Ala Ser Cys Cys Ile Ala Ala Tyr Arg Pro Ser Glu Thr Leu 20 25 tgc ggc ggg gag ctg gtg gac acc ctc cag ttc gtc tgt ggg gac cgc 144 Cys Gly Glu Leu Val Asp Thr Leu Gln Phe Val Cys Gly Asp Arg gge tte tae tte age agg eee gea age egt gtg age egt ege age egt 192 Gly Phe Tyr Phe Ser Arg Pro Ala Ser Arg Val Ser Arg Arg Ser Arg 50 55 que ate qtt gag gag tgc tgt ttc ege age tgt gae etg gee etc etg 240 Gly Ile Val Glu Glu Cys Cys Phe Arg Ser Cys Asp Leu Ala Leu Leu 70 75 gag acg tac tgt gct acc ccc gcc aag tcc gag agg gac gtg tcg acc 288 Glu Thr Tyr Cys Ala Thr Pro Ala Lys Ser Glu Arg Asp Val Ser Thr 95 85 cct ccg acc gtg ctt ccg gac aac ttc ccc aga tac ccc gtg ggc aag 336 Pro Pro Thr Val Leu Pro Asp Asn Phe Pro Arg Tyr Pro Val Gly Lys 105 100 ttc ttc caa tat gac acc tgg aag cag tcc acc cag cgc ctg cgc agg 384 Phe Phe Gln Tyr Asp Thr Trp Lys Gln Ser Thr Gln Arg Leu Arg Arg 115 120 gge etg eet gee ete etg egt gee ege egg ggt eae gtg ete gee aag 432 Gly Leu Pro Ala Leu Leu Arg Ala Arg Arg Gly His Val Leu Ala Lys 130 135 480 gag ctc gag gcg ttc agg gag gcc aaa cgt cac cgt ccc ctg att gct Glu Leu Glu Ala Phe Arg Glu Ala Lys Arg His Arg Pro Leu Ile Ala 150 155 145 528 Leu Pro Thr Gln Asp Pro Ala His Gly Gly Ala Pro Pro Glu Met Ala 165 170 543 agc aat cgg aag tga Ser Asn Arg Lys 180

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Cys Gly Glu Leu Val Asp Thr Leu Gln Phe Val Cys Gly Asp Arg
35 40 45

Gly Phe Tyr Phe Ser Arg Pro Ala Ser Arg Val Ser Arg Arg Ser Arg 50 55 60

Gly Ile Val Glu Glu Cys Cys Phe Arg Ser Cys Asp Leu Ala Leu Leu 65 70 75 80

Glu Thr Tyr Cys Ala Thr Pro Ala Lys Ser Glu Arg Asp Val Ser Thr 85 90 95

Pro Pro Thr Val Leu Pro Asp Asn Phe Pro Arg Tyr Pro Val Gly Lys
100 105 110

Phe Phe Gln Tyr Asp Thr Trp Lys Gln Ser Thr Gln Arg Leu Arg Arg 115 120 125

Gly Leu Pro Ala Leu Leu Arg Ala Arg Arg Gly His Val Leu Ala Lys
130 135 140

Glu Leu Glu Ala Phe Arg Glu Ala Lys Arg His Arg Pro Leu Ile Ala 145 150 155 160

Leu Pro Thr Gln Asp Pro Ala His Gly Gly Ala Pro Pro Glu Met Ala 165 170 175

Ser Asn Arg Lys 180

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<213> Artificial Sequence

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<222> (1)..(717)

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cag ctg gcc gac cat tat caa cag aac act cca atc ggc gac ggc cct Gln Leu Ala Asp His Tyr Gln Gln Asn Thr Pro Ile Gly Asp Gly Pro 180 185 190 gtg ctc ctc cca gac aac cat tac ctg tcc acc cag tct gcc ctg tct Val Leu Leu Pro Asp Asn His Tyr Leu Ser Thr Gln Ser Ala Leu Ser 200 195 205 aaa gat ccc aac gaa aag aga gac cac atg gtc ctg ctg gag ttt gtg Lys Asp Pro Asn Glu Lys Arg Asp His Met Val Leu Leu Glu Phe Val 210 215 acc gct gct ggg atc aca cat ggc atg gac gag ctg tac aag tga Thr Ala Ala Gly Ile Thr His Gly Met Asp Glu Leu Tyr Lys 225 230 235 <210> 8 <211> 238 <212> PRT <213> Artificial Sequence

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Gly Glu Gly Asp Ala Thr Tyr Gly Lys Leu Thr Leu Lys Phe Ile Cys 35 40 45

Thr Thr Gly Lys Leu Pro Val Pro Trp Pro Thr Leu Val Thr Thr Phe
50 55 60

Ser Tyr Gly Val Gln Cys Phe Ser Arg Tyr Pro Asp His Met Lys Gln 65 70 75 80

His Asp Phe Phe Lys Ser Ala Met Pro Glu Gly Tyr Val Gln Glu Arg
85 90 95

Thr Ile Phe Phe Lys Asp Asp Gly Asn Tyr Lys Thr Arg Ala Glu Val

Lys Phe Glu Gly Asp Thr Leu Val Asn Arg Ile Glu Leu Lys Gly Ile 115 120 125

11

Asp Phe Lys Glu Asp Gly Asn Ile Leu Gly His Lys Leu Glu Tyr Asn 130 135 140

Tyr Asn Ser His Asn Val Tyr Ile Met Ala Asp Lys Gln Lys Asn Gly
145 150 155 160

Ile Lys Val Asn Phe Lys Ile Arg His Asn Ile Glu Asp Gly Ser Val

Gln Leu Ala Asp His Tyr Gln Gln Asn Thr Pro Ile Gly Asp Gly Pro 180 185 190

Val Leu Leu Pro Asp Asn His Tyr Leu Ser Thr Gln Ser Ala Leu Ser 195 200 205

Lys Asp Pro Asn Glu Lys Arg Asp His Met Val Leu Leu Glu Phe Val 210 215 220

Thr Ala Ala Gly Ile Thr His Gly Met Asp Glu Leu Tyr Lys 225 230 235

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<212> DNA

<213> Homo sapiens

<220>

<221> CDS

<222> (1)..(333)

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Trp Gly Pro Asp Pro Ala Ala Ala Phe Val Asn Gln His Leu Cys Gly
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Ser His Leu Val Glu Ala Leu Tyr Leu Val Cys Gly Glu Arg Gly Phe
35 40 45

ttc tac aca ccc aag acc cgc cgg gag gca gag gac ctg cag gtg ggg 192

Phe Tyr Thr Pro Lys Thr Arg Arg Glu Ala Glu Asp Leu Gln Val Gly

50 55 60

cag gtg gag ctg ggc ggg ggc cct ggt gca ggc agc ctg cag ccc ttg 240 Gln Val Glu Leu Gly Gly Gly Pro Gly Ala Gly Ser Leu Gln Pro Leu 65 70 75 80

gcc ctg gag ggg tcc ctg cag aag cgt ggc att gtg gaa caa tgc tgt 288
Ala Leu Glu Gly Ser Leu Gln Lys Arg Gly Ile Val Glu Gln Cys Cys
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acc age atc tgc tcc ctc tac cag ctg gag aac tac tgc aac tag 333

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<212> PRT

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Trp Gly Pro Asp Pro Ala Ala Ala Phe Val Asn Gln His Leu Cys Gly
20 25 30

Ser His Leu Val Glu Ala Leu Tyr Leu Val Cys Gly Glu Arg Gly Phe 35 40 45

Phe Tyr Thr Pro Lys Thr Arg Arg Glu Ala Glu Asp Leu Gln Val Gly 50 55 60

Gln Val Glu Leu Gly Gly Gly Pro Gly Ala Gly Ser Leu Gln Pro Leu 65 70 75 80

Ala Leu Glu Gly Ser Leu Gln Lys Arg Gly Ile Val Glu Gln Cys Cys 85 90 95

Thr Ser Ile Cys Ser Leu Tyr Gln Leu Glu Asn Tyr Cys Asn 100 105 110